

Bootstrap Grid

Bootstrap's grid system is highly flexible and allows you to create responsive layouts with ease. By leveraging rows, columns, and responsive classes, you can build complex designs that adapt well to various screen sizes and devices.

1. **container**: A fixed-width container that holds and aligns grid items.
2. **container-fluid**: A full-width container that spans the entire width of the viewport.
3. **row**: A horizontal group of columns that align within a container.
4. **col**: A flexible column that adjusts its width according to the number of columns in the row.
5. **col-{breakpoint}-{number}**: A column with a specific width for a given breakpoint (e.g., col-md-6 for a column that takes up 6/12 of the row on medium screens).
6. **col-{number}**: A column that takes up a specified number of columns regardless of the screen size (e.g., col-4).
7. **col-auto**: A column that takes up only as much space as its content requires.
8. **g-{number}**: A utility class to set the gap between columns in a row (e.g., g-3 for a gap of 3 units).
9. **align-items-{alignment}**: A class to vertically align columns within a row (e.g., align-items-center).
10. **justify-content-{alignment}**: A class to horizontally align columns within a row (e.g., justify-content-end).
11. **order-{number}**: A class to change the visual order of columns (e.g., order-1).
12. **col-sm-{number}**: A column that takes up a specified number of columns on small screens (≥576px).
13. **col-md-{number}**: A column that takes up a specified number of columns on medium screens (≥768px).
14. **col-lg-{number}**: A column that takes up a specified number of columns on large screens (≥992px).
15. **col-xl-{number}**: A column that takes up a specified number of columns on extra-large screens (≥1200px).
16. **col-xxl-{number}**: A column that takes up a specified number of columns on extra-extra-large screens (≥1400px).

Example

```
<div class="container">  
  
  <div class="row">
```

```
<div class="col-md-4">Column 1</div>

<div class="col-md-4">Column 2</div>

<div class="col-md-4">Column 3</div>

</div>

</div>
```

In this example, on medium screens and above (col-md-

Example-2

```
<div class="container">

<h2>Bootstrap Grid Example</h2>


//creates one column

<div class="row">

  <div class="col-sm-12" style="background-color: #f2f2f2;">Column 1 (Full Width on Small
Screens)</div>

</div>


//creates two column

<div class="row">

  <div class="col-sm-6" style="background-color: #f0f0f0;">Column 2 (Half Width on Small
Screens)</div>

  <div class="col-sm-6" style="background-color: #e8e8e8;">Column 3 (Half Width on Small
Screens)</div>

</div>


//creates three column

<div class="row">

  <div class="col-sm-4" style="background-color: #e0e0e0;">Column 4 (One-Third Width on Small
Screens)</div>

  <div class="col-sm-4" style="background-color: #d8d8d8;">Column 5 (One-Third Width on Small
Screens)</div>
```

```
<div class="col-sm-4" style="background-color: #d0d0d0;">Column 6 (One-Third Width on Small Screens)</div>
```

```
</div>
```

```
//creates four equal columns
```

```
<div class="row">
```

```
<div class="col-sm-3" style="background-color: #c8c8c8;">Column 7 (One-Fourth Width on Small Screens)</div>
```

```
<div class="col-sm-3" style="background-color: #c0c0c0;">Column 8 (One-Fourth Width on Small Screens)</div>
```

```
<div class="col-sm-3" style="background-color: #b8b8b8;">Column 9 (One-Fourth Width on Small Screens)</div>
```

```
<div class="col-sm-3" style="background-color: #b0b0b0;">Column 10 (One-Fourth Width on Small Screens)</div>
```

```
</div>
```

```
//creates six equal columns
```

```
<div class="row">
```

```
<div class="col-sm-2" style="background-color: #a8a8a8;">Column 11 (One-Sixth Width on Small Screens)</div>
```

```
<div class="col-sm-2" style="background-color: #a0a0a0;">Column 12 (One-Sixth Width on Small Screens)</div>
```

```
<div class="col-sm-2" style="background-color: #989898;">Column 13 (One-Sixth Width on Small Screens)</div>
```

```
<div class="col-sm-2" style="background-color: #909090;">Column 14 (One-Sixth Width on Small Screens)</div>
```

```
<div class="col-sm-2" style="background-color: #888888;">Column 15 (One-Sixth Width on Small Screens)</div>
```

```
<div class="col-sm-2" style="background-color: #808080;">Column 16 (One-Sixth Width on Small Screens)</div>
```

```
</div>
```

```
</div>
```

